

A34634 - 070378.0108

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Mruz et al.
Serial No. : 09/896,171 Examiner : Lee, Benny T.
Filed : June 29, 2001 Group Art Unit: 2817
For : SWITCHABLE RF POWER DIVIDER/COMBINER

DECLARATION UNDER 37CFR 1.132

 declares under penalty of perjury as follows:

1. I am a graduate of xxx university with a degree of Bachelor of Electrical Engineering.
I have ³⁷~~31~~ years experience in designing microwave components.

2. I have reviewed U. S. Patent Application Serial Number 09/896,171, filed June 29, 2001 which names John R. Mruz and Richard Palker as inventors. This application describes a device having switchable reactive impedance matching reeds 37, 38 and 39 which are shown to have the form of open circuited stubs which are connected to the center conductor 36 in the operative position. These matching reeds do not include resistive elements such as resistive conductors or lossy dielectric material and are therefore what are referred to in the art as being "Lossless".

3. I have reviewed Kim Patent 5,872,491 which I understand to be used by the Examiner as a basis for rejecting this application. The Kim patent describes a class of power divider known as a "Wilkinson-type" divider, which functions like a hybrid junction in that unbalanced energy provided to be combined is supplied to the "isolation resistors" to be dissipated.

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Accordingly, the matching elements, comprising resistors 50, transmission lines 56 and switch 52 are not "lossless."

4. I further declare that the statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code, and that any such willful false statements may jeopardize the validity of the above application and any patent issuing thereon.

OFFICIAL

Vin Leikus
V. Leikus